AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning on page 4, line 27 and ending on page 7, line 10 with:

More preferably, each ligand that is a beta lactam antibiotic <u>and</u> is selected from the group consisting of:

(i) a compound of formula (a):

wherein:

R is substituted alkyl, aryl, aralkyl, or heteroaryl wherein each of said substituent optionally links (a) to a linker via a covalent bond or R is a covalent bond that links (a) to a linker; and

 R^1 and R^2 are, independently of each other, alkyl or at least one of R^1 and R^2 is a covalent bond linking (a) to a linker;

(ii) a compound of formula (b):

wherein:

one of [[P]] \underline{M} and Q is O, S, or -CH₂- and the other is -CH₂-;

 R^3 is substituted alkyl, heteroarylalkyl, aralkyl, heterocyclylalkyl, or $-C(R^6)=NOR^7$ (where R^6 is aryl, heteroaryl, or substituted alkyl; and R^7 is alkyl or substituted alkyl) wherein each of said substituent optionally links (b) to a linker or R^3 is a covalent bond that links (b) to a linker; and

R⁴ is hydrogen, alkyl, alkenyl, substituted alkenylene, substituted alkyl, halo, heteroarylalkyl, heterocyclylalkyl, -SR^a (where R^a is aryl, heteroaryl, heterocyclyl, or cycloalkyl) or -CH₂SR^a (where R^a is aryl, heteroaryl, heterocyclyl, or cycloalkyl) wherein each of said substituent optionally links (b) to a linker or R⁴ is a covalent bond that links (b) to a linker;

R⁵ is hydrogen, hydroxy, or alkoxy;

(iii) a compound of formula (c):

wherein:

T is S or CH2

R^{8a} is alkyl;

W is O, S, $-OCH_{2^{-}}$, or CH_{2} ; and R^{8} is $-(alkylene)-NHC(R^{b})=NH$ where R^{b} is a covalent bond linking (c) to a linker; or $-W-R^{8}$ is a covalent bond that links (c) to a linker; (iv) a compound of formula (d):

wherein:

R9 and R9a are alkyl;

R¹⁰ is selected from the group consisting of hydrogen, alkyl, substituted alkyl, halo, aryl, heteroaryl, heterocyclyl, aralkyl, heteroaralkyl, heterocyclylalkyl or -CH₂SR^a (where R^a is aryl, heteroaryl, heterocyclyl, or cycloalkyl) wherein each of said substituent optionally links (d) to a linker or at least one of R⁹ and R¹⁰ is a covalent bond that links (d) to a linker; or

R⁹ and R¹⁰ together with the carbon atoms to which they are attached form an aryl, heteroaryl, cycloalkyl, substituted cycloalkyl, or heterocyclyl ring of 4 to 7 ring atoms wherein one of the ring atoms optionally links (d) to a linker; or

(v) a compound of formula (e):

wherein:

R¹¹ is -SO₃H or -(alkylene)-COOH;

R¹² is alkyl, substituted alkyl, haloalkyl, alkoxy, aryl, aralkyl, heteroaryl, heteroaralkyl, cycloalkyl, substituted cycloalkyl, or heterocyclyl wherein each of said substituent optionally binds (e) to a linker or R¹² is a covalent bond that links (e) to a linker:

and

R¹³ is alkyl, acyl, or -COC(R¹⁴)=N-OR¹⁵ wherein R¹⁴ is aryl, heteroaryl which optionally links (e) to a linker, and R¹⁵ is -(alkylene)-COOR¹⁶ wherein R¹⁶ is hydrogen or

optionally links (e) to a linker or R13 is a covalent bond that links (e) to a linker; and pharmaceutically acceptable salts thereof;

Please amend the paragraph beginning on page 39, line 16 and ending on page 48, line 8 with:

While the broadest definition of this invention is set forth in the Summary of the Invention, certain compounds of Formula (I) are preferred.

One preferred group of compounds is a multibinding compound of (A) Formula (II):

wherein:

La is a beta lactam antibiotic and is selected from the group consisting of:

a compound of formula (a): (i)

wherein:

R is substituted alkyl, aryl, aralkyl, or heteroaryl wherein each of said substituent optionally links (a) to a linker via a covalent bond or R is a covalent bond that links (a) to a linker; and

R¹ and R² are, independently of each other, alkyl or at least one of R¹ and R² is a covalent bond linking (a) to a linker;

(ii) a compound of formula (b):

$$R^3$$
 CO-NH R^4 COOH R^4 (b)

wherein:

one of [[P]] \underline{M} and Q is O, S, or -CH₂- and the other is -CH₂-;

 R^3 is substituted alkyl, heteroarylalkyl, aralkyl, heterocyclylalkyl, or $-C(R^6)=NOR^7$ (where R^6 is aryl, heteroaryl, or substituted alkyl; and R^7 is alkyl or substituted alkyl) wherein each of said substituent optionally links (b) to a linker or R^3 is a covalent bond that links (b) to a linker; and

R⁴ is hydrogen, alkyl, alkenyl, substituted alkenylene, substituted alkyl, halo, heteroarylalkyl, heterocyclylalkyl, -SR^a (where R^a is aryl, heteroaryl, heterocyclyl, or cycloalkyl) or -CH₂SR^a (where R^a is aryl, heteroaryl, heterocyclyl, or cycloalkyl) wherein each of said substituent optionally links (b) to a linker or R⁴ is a covalent bond that links (b) to a linker;

R⁵ is hydrogen, hydroxy, or alkoxy;

(iii) a compound of formula (c):

wherein:

T is S or CH2;

R^{8a} is alkyl;

W is O, S, -OCH₂-, or CH₂; and R^8 is -(alkylene)-NHC(R^b)=NH where R^b is a covalent bond linking (c) to a linker; or -W- R^8 is a covalent bond that links (c) to a linker;

(iv) a compound of formula (d):

wherein:

R⁹ and R^{9a} are alkyl;

 R^{10} is selected from the group consisting of hydrogen, alkyl, substituted alkyl, halo, aryl, heteroaryl, heterocyclyl, aralkyl, heteroaralkyl, heterocyclylalkyl or -CH₂SR^a (where R^a is aryl, heteroaryl, heterocyclyl, or cycloalkyl) wherein each of said substituent optionally links (d) to a linker or at least one of R⁹ and R¹⁰ is a covalent bond that links (d) to a linker; or

R⁹ and R¹⁰ together with the carbon atoms to which they are attached form an aryl, heteroaryl, cycloalkyl, substituted cycloalkyl, or heterocyclyl ring of 4 to 7 ring atoms wherein one of the ring atoms optionally links (d) to a linker; or

(v) a compound of formula (e):

wherein:

R¹¹ is -SO₃H or -(alkylene)-COOH;

R¹² is alkyl, substituted alkyl, haloalkyl, alkoxy, aryl, aralkyl, heteroaryl, heteroaralkyl, cycloalkyl, substituted cycloalkyl, or heterocyclyl wherein each of said substituent optionally binds (e) to a linker or R¹² is a covalent bond that links (e) to a linker; and

 R^{13} is alkyl, acyl, or -COC(R^{14})=N-OR¹⁵ wherein R^{14} is aryl, heteroaryl which optionally links (e) to a linker, and R^{15} is -(alkylene)-COOR¹⁶ wherein R^{16} is hydrogen or optionally links (e) to a linker or R^{13} is a covalent bond that links (e) to a linker, preferably

La is selected from the group consisting of:

(i) a compound of formula (a):

wherein:

R is:

$$R^{17}$$
 CH_{2}
 R^{17}
 CH_{2}
 R^{17}
 CH_{3}
 R^{19}
 CH_{4}
 R^{19}
 CH_{5}
 R^{19}
 CH_{7}
 CH_{1}
 CH_{1}
 CH_{1}
 CH_{2}
 CH_{3}
 CH_{4}
 CH_{5}
 CH_{5}
 CH_{7}
 CH_{1}
 CH_{1}
 $COOH_{11}$
 $COOH_{11}$
 $COOH_{12}$

R²⁰=Cl and R²¹=H

where:

 R^{17} is a covalent bond that links the (a) group to a linker; one of R^{18} and R^{19} is hydrogen and the other is a covalent bond that links the (a)

group

to a linker; and

R¹ and R² are methyl;

(ii) a compound of formula (b):

where:

R³ and R⁴ are:

$$R^{17}NH$$
 S
 $NOCH_3$
 $-CH_2OCOCH_3$, $-CH_2OCH_3$, H
 $NOCH_3$
 $NOCH_3$

(Note: the R³ group in the left column is paired with the R⁴ in the right column) wherein:

n is 0 or 1; m is 1-5; Z is CH or N; Y is H or halo; R is alkyl; R^{17} is a covalent bond that links the (b) group to a linker; one of R^{18} and R^{19} is hydrogen or alkyl; R^{30} and R^{31} are, independently of each other, hydrogen or alkyl; or together with the nitrogen atom to which they are attached form a heterocycloamino group; and R, R^{32} and R^{33} are independently alkyl wherein one of R^{18} , R^{19} , R^{30} - R^{33} is a covalent bond that links the (b) group to a linker;

(iii) a compound of formula (c):

wherein R^b is a covalent bond linking (c) to a linker;

(iv) a compound of formula (d):

where Ra is:

where:

 R^{23} is a covalent bond that links (d) to a linker; one of R^{24} and R^{25} is hydrogen, alkyl, substituted alkyl, or aralkyl, and other is a covalent bond that links (d) to a linker; R^{26} is alkyl; or

(v) a compound of formula (e):

wherein one of \mathbb{R}^{21} and \mathbb{R}^{22} is hydrogen and the other links (d) to a linker;[;]

L^b is an optionally substituted vancomycin which is linked to a linker via any hydroxyl group, carboxyl group or amino group; and

X is a linker and is selected from a compound of formula:

wherein

m is an integer of from 0 to 20;

 X^a at each separate occurrence is selected from the group consisting of -O-, -S-, -NR-, -C(O)-, -C(O)O-, -OC(O)-, -C(O)NR-, -NRC(O)-, C(S)O-, -C(S)NR-, -NRC(S)-, or a covalent bond where R is as defined below;

Z at each separate occurrence is selected from the group consisting of alkylene, substituted alkylene, cycloalkylene, substituted cylcoalkylene, alkenylene, substituted alkynylene, cycloalkenylene, substituted cycloalkenylene, arylene, heteroarylene, heterocyclene, or a covalent bond;

each Y^a at each separate occurrence is selected from the group consisting of -O-, -C(O)-, -C(O)O-, -RR-, -S(O)n-, -C(O)NR'-, -NR'C(O)-, -NR'C(O)NR'-, -NR'C(O)NR'-, -NR'C(O)NR'-, -NR'C(O)NR'-, -NR'-C(NR')-NR'-, -NR'-C(NR')-NR'-, -NR'-C(NR')-NR'-, -NR'-C(NR')-NR'-, -NR'-C(NR')-NR'-, -NR'-C(NR')-NR'-, -NR'-S(O)N-NR'-, -NR'-S(O)

attached to the linker via acylation of its alpha amino group; and pharmaceutically acceptable salts thereof.

Please amend the paragraph beginning on page 48, line 10 and ending on page 57, line 18 with:

(B) Another more preferred group of compounds is a multibinding compound of Formula (III):

wherein:

ligands, L^c and L^d, are a beta lactam antibiotic and are independently selected from the group consisting of:

(i) a compound of formula (a):

wherein:

R is substituted alkyl, aryl, aralkyl, or heteroaryl wherein each of said substituent optionally links (a) to a linker via a covalent bond or R is a covalent bond that links (a) to a linker; and

R¹ and R² are, independently of each other, alkyl or at least one of R¹ and R² is a covalent bond linking (a) to a linker;

(ii) a compound of formula (b):

$$R^3$$
 $CO-NH$ R^4 $COOH$ R^4 $COOH$ R^4

wherein:

one of [[P]] M and Q is O, S, or -CH2- and the other is -CH2-;

 R^3 is substituted alkyl, heteroarylalkyl, aralkyl, heterocyclylalkyl, or $-C(R^6)=NOR^7$ (where R^6 is aryl, heteroaryl, or substituted alkyl; and R^7 is alkyl or substituted alkyl) wherein each of said substituent optionally links (b) to a linker or R^3 is a covalent bond that links (b) to a linker; and

 R^4 is hydrogen, alkyl, alkenyl, substituted alkenylene, substituted alkyl, halo, heteroarylalkyl, heterocyclylalkyl, -SR a (where R a is aryl, heteroaryl, heterocyclyl, or cycloalkyl) or -CH $_2$ SR a (where R a is aryl, heteroaryl, heterocyclyl, or cycloalkyl) wherein each of said substituent optionally links (b) to a linker or R 4 is a covalent bond that links (b) to a linker;

R⁵ is hydrogen, hydroxy, or alkoxy;

(iii) a compound of formula (c):

wherein:

T is S or CH2;

R83 is alkyl:

W is O, S, -OCH₂-, or CH₂; and R⁸ is -(alkylene)-NHC(R^b)=NH where R^b is a covalent bond linking (c) to a linker; or -W-R⁸ is a covalent bond that links (c) to a linker; (iv) a compound of formula (d):

wherein:

R⁹ and R^{9a} are alkyl;

R¹⁰ is selected from the group consisting of hydrogen, alkyl, substituted alkyl, halo, aryl, heteroaryl, heterocyclyl, aralkyl, heteroaralkyl, heterocyclylalkyl or -CH₂SR^a (where R^a is aryl, heteroaryl, heterocyclyl, or cycloalkyl) wherein each of said substituent optionally links (d) to a linker or at least one of R⁹ and R¹⁰ is a covalent bond that links (d) to a linker, or

R⁹ and R¹⁰ together with the carbon atoms to which they are attached form an aryl, heteroaryl, cycloalkyl, substituted cycloalkyl, or heterocyclyl ring of 4 to 7 ring atoms wherein one of the ring atoms optionally links (d) to a linker; or

(v) a compound of formula (e):

wherein:

R¹¹ is -SO₃H or -(alkylene)-COOH;

R¹² is alkyl, substituted alkyl, haloalkyl, alkoxy, aryl, aralkyl, heteroaryl, heteroaralkyl, cycloalkyl, substituted cycloalkyl, or heterocyclyl wherein each of said

substituent optionally binds (e) to a linker or R12 is a covalent bond that links (e) to a linker; and

R¹³ is alkyl, acyl, or -COC(R¹⁴)=N-OR¹⁵ wherein R¹⁴ is anyl, heteroaryl which optionally links (e) to a linker, and R15 is -(alkylene)-COOR16 wherein R18 is hydrogen or optionally links (e) to a linker or R¹³ is a covalent bond that links (e) to a linker, preferably

L^c and L^d are independently selected from the group consisting of:

a compound of formula (a): (i)

wherein:

R is:

R²⁰=Cl and R²¹=H

$$R^{17}$$
 CH_2
 CH_2
 CH_3
 $R^{19}O$
 CH_3
 $R^{19}O$
 CH_4
 $R^{19}O$
 CH_5
 $R^{10}O$
 CH_5
 CH_5
 $COOH^{17}O$
 $COOH^{17}O$

where:

R¹⁷ is a covalent bond that links the (a) group to a linker; one of R¹⁸ and R¹⁹ is hydrogen and the other is a covalent bond that links the (a) group to a linker; and

(ii) a compound of formula (b):

where:

R³ and R⁴ are:

$$R^{17}NH$$

$$S$$

$$NOCH_3$$

$$-CH_2OCOCH_3, -CH_2OCH_3, H$$

$$R^{18}NH$$

$$S$$

$$CH_2S$$

$$CH_2S$$

$$NOCH_3$$

$$CH_2S$$

$$NOCH_3$$

$$CH_2S$$

$$NOCH_3$$

$$CH_2S$$

$$NOCH_3$$

$$R^{19}$$

$$R^{19}$$

$$R^{20}$$

$$R^{21}$$

$$R^{22}$$

$$R^{21}$$

$$R^{22}$$

$$R^{23}$$

$$R^{24}$$

$$R^{25}$$

$$R^{25}$$

$$R^{25}$$

$$R^{25}$$

$$R^{25}$$

(Note: the R³ group in the left column is paired with the R⁴ in the right column) wherein:

n is 0 or 1; m is 1-5; Z is CH or N; Y is H or halo; R is alkyl;

R¹⁷ is a covalent bond that links the (b) group to a linker; one of R¹⁸ and R19 is hydrogen or alkyl; R³⁰ and R³¹ are, independently of each other, hydrogen or alkyl; or together with the nitrogen atom to which they are attached form a heterocycloamino group; and R, R³² and R³³ are independently alkyl wherein one of R¹⁸, R¹⁹, R³⁰-R³³ is a covalent bond that links the (b) group to a linker;

(iii) a compound of formula (c):

wherein Rb is a covalent

bond linking (c) to a linker;

(iv) a compound of

formula (d):

where Ra is:

where:

(v)

R²³ is a covalent bond that links (d) to a linker; one of $\ensuremath{\mathsf{R}}^{24}$ and $\ensuremath{\mathsf{R}}^{25}$ is hydrogen, alkyl, substituted alkyl, or aralkyl, and other is a covalent bond that links (d) to a linker; R²⁶ is alkyl; or a compound of formula (e):

wherein one of \mathbb{R}^{21} and \mathbb{R}^{22} is hydrogen and the other links (d) to a linker; and X is a linker is selected from a compound of formula:

$$-X^{a}-Z-(Y^{a}-Z)_{m}-X^{a}-$$

wherein

m is an integer of from 0 to 20;

 X° at each separate occurrence is selected from the group consisting of -O-, -S-, -NR-, -C(O)-, -C(O)O-, -OC(O)-, -C(O)NR-, -NRC(O)-, C(S), -C(S)O-, -C(S)NR-, -NRC(S)-, or a covalent bond where R is as defined below;

Z at each separate occurrence is selected from the group consisting of alkylene, substituted alkylene, cycloalkylene, substituted cylcoalkylene, alkenylene, substituted alkynylene, cycloalkenylene, substituted cycloalkenylene, arylene, heteroarylene, heterocyclene, or a covalent bond;

each Y^a at each separate occurrence is selected from the group consisting of -O-, -C(O)-, -OC(O)-, -C(O)O-, -NR-, -S(O)n-, -C(O)NR'-, -NR'C(O)-, -NR'C(O)NR'-, -NR'C(O)NR'-, -NR'-C(E)NR'-, -NR'-C(E)

Please amend the paragraph beginning on page 57, line 20 and ending on page 80 with:

Within the above more preferred groups, an even more preferred group of compounds is that wherein:

La, Lc, and Ld are independently selected from the group consisting of:

L^b is selected from the group consisting of:

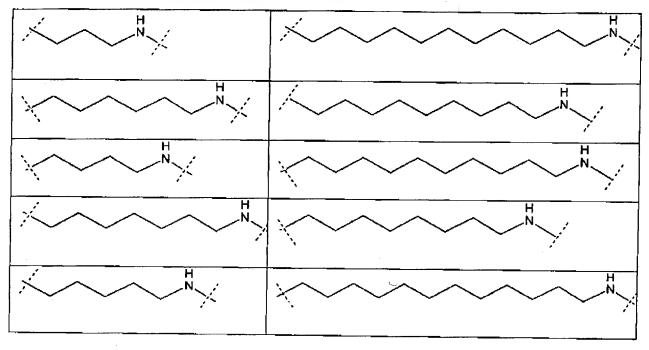
wherein the atom carrying the bond with the dashed line indicates the point of attachment of the ligand to the linker; and

the linker is selected from the group consisting of:

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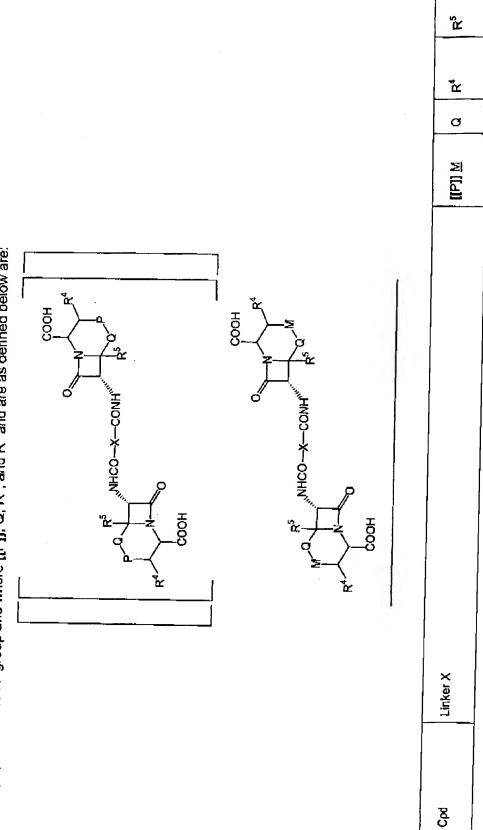
LINKERS DERIVED FROM AMINOALDEHYDES



LINKERS DERIVED FROM AMINOACIDS

Representative compounds of the invention are shown in the table below:

Compounds of Formula (III) wherein the ligands are selected from a compound of formula (b) and are linked to a via the $\rm R^3$ group and where [[PJ], Q, $\rm R^4$, and $\rm R^5$ and are as defined below are: linker, X, \equiv



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	-CH ₂ -1- melthyl-1H tetrazol-5- ylsulfanyl		-CH ₂ -1- methyl-1H- tetrazol-5- ylsulfanyl	
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-CH ₂ -1- methyl-1H- tetrazol-5- ylsulfanyl	-CH ₂ -1- methyl-1H- tetrazol-5- ylsulfanyl

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-CH ₂ -1- methyl-1H- teirazol-5- ylsutfanyl	-CH ₂ -1- methyl-1H- tetrazol-5- ylsulfanyl

Compound of Formula (III) wherein the ligands are selected from a compound of formula (b) and are linked to a linker, X, via the \mathbb{R}^4 group and where [[P]] \underline{M} , Q, \mathbb{R}^3 , and \mathbb{R}^5 and are as defined below are:

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<u> [[₽]] M</u>	(2-aminothiazol-4- yl)- methoxyiminomethyl
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III. Other compounds of the invention are:

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